

DESCRIPTIONS OF NEW SPECIES OF MARINE MOLLUSCA  
COLLECTED BY THE LATE OTTO KOCH AT THE ISLAND  
OF CEBÚ, PHILIPPINES. (SECOND PAPER.)

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PLATE XXII, FIGS. 1-14.

1. *PHOS NITENS*, n.sp. Pl. XXII, Fig. 1.

Testa oblonga, fusiformis, crassiuscula, albida, nitens; spira medio-criter elongata, convexiuscula; anfractus 7-8, rotunde convexi, primi 3-4 læves, cæteri spiraliter obscure lirati, longitudinaliter costati, costis circ. 12, crassiusculis; anfractus ultimus spiram fere æquans, basim versus conspicue liratus, vix rostratus; apertura oblongo-ovata, canali lato, brevissimo; columella leviter arcuata, infra medium plica unica obliqua angusta instructa; labrum arcuatum, intus liratum, extus varicosum. Long. 9, maj. diam. 4 mm.

This interesting little shell is remarkable for its shining silvery appearance, and the complete smoothness of its upper whorls. The spiral ridges are very obscure, excepting towards the base of the last whorl, while the longitudinal ribs are similar to those prevailing in other members of the genus.

2. *NASSA CEBUENSIS*, n.sp. Pl. XXII, Fig. 2.

Testa oblongo-ovata, solidiuscula, luteo-fusca, purpureo-fusco balteata; spira elata, convexiuscula, ad apicem acuta; anfractus 8, complanati, vix convexi, plicis supra latiusculis, infra evanidis, striis spiralibus numerosis, conspicuis, alternatim crassiusculis et angustis sculpti; anfractus ultimus spiram æquans, leviter convexus; apertura subovata, antice lata, postice angustior, fauce purpureo-fusca; peristoma crassiusculum, glabrum, intus valde liratum, callo columellari leviter effuso, postice uniplicato. Long. 12, maj. diam. 5.5 mm.

The shell is very neatly striated throughout, the longitudinal plicæ are conspicuous at the top of the whorls marking the suture. Upon the upper whorls (of the type specimen) is a single narrow purplish-brown band, while the body-whorl is ornamented by an additional broad brown band. The shell does not seem to be very closely allied to any known species.

3. *DRILLIA (CLAVUS) FUSCO-NITENS*, n.sp. Pl. XXII, Fig. 3.

Testa fusiformis, crassiuscula, glabra, extus intusque nigro-fusca; spira leviter elata, acuta; anfractus 9, leviter convexi, costis 8 crassis rotundatis glabratis instructi; anfractus ultimus spiram paulo superans, convexus, obtusissime angulatus, leviter obliquus, haud rostratus,

ad basim liris spiralibus 6-7, angustis munitus; apertura oblonga, columella rectiuscula, callo tenui induta; labrum acutum, sinu postico lato et profundo, antico lato sed minime profundo; canalis brevissimus, latiusculus. Long. 15, maj. diam. 6 mm.

This shell is of a glossy dark-brown colour throughout. The angularity common to the section *Clavus* is scarcely apparent, and the species may be said to approach the confines of the section *Crassispira*. *D. cantharus*, Reeve, from the same locality, is very similar in character, but of a much shorter and stouter form.

#### 4. EULIMA SUBMARGINATA, n.sp. Pl. XXII, Fig. 4.

Testa conico-turrita, rectiuscula, aut levissime sinistrorsum curvata, pellucida, nitens; spira acute pyramidalis; anfractus 12, fere plani; sutura distincta, linea impressa alba marginata; anfractus ultimus brevis, ad peripheriam levissime angulatus; apertura parva, late ovata; peristoma simplex. Long. 5, maj. diam. 1.5 mm.

A shining pellucid shell with a pyramidal spire, very slightly angled in the middle of the short body-whorl, and with a small aperture. The suture is clearly defined, and the impressed line a little below it unusually distinct.

#### 5. SUBULARIA PIPERATA, n.sp. Pl. XXII, Fig. 5.

Testa ovato-subulata, polita, pellucida, maculis parvis numerosis rufo-fuscis irregularibus ornata; spira acutiuscula; anfractus 9, levissime convexi, sutura alba, callosa sejuncti; anfractus ultimus ovatus, ad basim leviter attenuatus; apertura oblongo-ovata; peristoma simplex, marginibus conjunctis, dextro ad suturam retracto, columellari calloso. Long. 3, diam. 1 mm.

The coloration of this little shell, which is profusely speckled with small reddish-brown spots, is quite unusual in the genus; the other species of *Subularia* (= *Leiostraca*, H. & A. Adams) are either plain, or coloured with transverse linear bands, or, as in *S. Metcalfei* (A. Adams), marked with longitudinal lines or flames.

#### 6. STILIFER KOCHIANUS, n.sp. Pl. XXII, Fig. 6.

Testa ovato-conica, tenuis, pellucida, albida, varicibus irregularibus angustis planulatis hic illic sparsim ornata; spira acute conica, medio-criter elata; anfractus 6-7, convexiusculi; anfractus ultimus inflatus, spiram superans; apertura antice latiuscula, sinistrorsum tracta, rotundata, postice angustior, acuta; peristoma, simplex, acutum. Long. 8, diam. 5 mm.

A species somewhat allied to *S. astericola*, Brod., and *ovoides*, H. & A. Ad., but having a longer and more regularly conical spire than either of those species. The opaque white flattened varices, though irregular, seem to be characteristic.

#### 7. PYRGULINA INTERSCULPTA, n.sp. Pl. XXII, Fig. 7.

Testa elongata, pallide fulva; spira producta, lateribus paulo convexis; anfractus 7, convexiusculi, sutura profunda sejuncti, costellis longitudinalibus numerosis angustis, interstitiis transversim

sulcatis, instructi; ultimus  $\frac{1}{3}$  longit. testæ æquans; apertura ovata; labrum simplex, acutum; columella ad basim leviter arcuata, in medio plica unica parva obliqua munita. Long. 4, diam. 1 mm.

This little shell is allied to the Australian *Odostomia pupæformis*, Souverbie (= *Parthenia Kreffti*, Angas), but it is much more slender in form and has thinner and closer ribs.

8. *ELUSA LIVIDA*, n.sp. Pl. XXII, Fig. 8.

Testa elongato-chrysalidiformis, crassa, livida, nitens; anfractus 7, primus minutus, lævis, leviter contortus, cæteri planato convexi, costis numerosis (circ. 24) rotundatis rectiusculis instructi, sutura impressa sejuncti; anfractus ultimus  $\frac{1}{4}$  longitudinis testæ æquans, ad basim vix attenuatus, rotundatus, lateribus rectiusculis, planulatis; apertura parva, leviter sinistrorsum obliqua; columella crassa, uniplicata, valde sinistrorsum contorta. Long. 3.5, diam. 1 mm.

A little shining dark plum-coloured shell, with numerous longitudinal ribs and no spiral sculpture.

9. *ELUSA CRASSICOSTATA*, n.sp. Pl. XXII, Fig. 9.

Testa elongata, gracilis, albo-nitens, anguste rimata; spira elongata, lateribus convexiusculis; anfractus 13, convexi, sutura profunda sejuncti, costis robustis confertiuseculis (circ. 18) instructi; anfractus ultimus breviculus,  $\frac{1}{3}$  longitudinis testæ æquans, costis evanidis; apertura subovata, antice latiuscula, rotundata, postice acuta, angustior; labrum simplex, acutum; columella crassiuscula, contorta, plica unica parum obliqua crassiuscula munita, inferne crassiuscula, leviter reflexa, superne tenuiter callosa. Long. 7, diam. 1.5 mm.

An elongated shining white shell, with thick longitudinal ribs and a deeply impressed suture. A prominent, slightly oblique plait is conspicuous on the twisted and reflexed columella, about the middle of the aperture.

10. *SCALA HUMEROSA*, n.sp. Pl. XXII, Fig. 10.

Testa ovato-pyramidalis, tenuis, alba, medioeriter umbilicata; spira elato-conica; anfractus 8, convexi, rotundati, costis (circ. 22) acutiuseculis supra angulatis instructi, sutura profunda disjuncti; anfractus ultimus latiusculus,  $\frac{1}{3}$  longitudinis testæ æquans; apertura circularis; peristoma medioeriter incrassatum. Long. 14, diam. 8 mm.

A white shell, with numerous thin ribs. The angularity of the whorls near the suture gives it a shouldered appearance.

11. *TRIFORIS PICTURATUS*, n.sp. Pl. XXII, Fig. 11.

Testa sinistrorsa, elongata, gracilis, albida, nigro-fusco maculata, ad apicem fusca; anfr. 18, planati, vix concavi, liris tribus acutiuseculis cincti, inferne angulati, ad angulum pustulati, pustulis albidis fusco interpunctatis; anfractus ultimus breviculus, biangulatus, ad basim vix concavus, rostro fusco oblique dextrorsus reflexo instructus; apertura parva, subquadrata; labrum tenue, serratum. Long. 9, diam. 2.5 mm.

A pretty species, neatly sculptured and noded, streaked and spotted with blackish brown; with a brown tubular rostrum placed obliquely away from the aperture, on the right hand side of the shell.

12. *CERITHIUM OSCITANS*, n.sp. Pl. XXII, Fig. 12.

Testa ovato-pyramidata, tenuis, albida, fusco strigata; spira acute pyramidalis; anfractus 9, convexi, longitudinaliter striati, spiraliter irregulariter et inconspicue lirati, supra medium obtuse angulati, sutura profunda sejuncti; anfractus ultimus spiram fere æquans, inflatus; apertura lata; canalis brevissimus, sinistrorsum obliquus; labrum simplex, acutum, rotunde arcuatum; columella leviter arcuata, tenuiter callosa, lira crassiuscula callosa superne instructa, inferne contorta, oblique sinistrorsum retracta. Long. 11, diam. 5 mm.

A light shell, whitish, ornamented with longitudinal brown streaks, having a pyramidal spire, inflated body-whorl, and wide mouth.

13. *EMARGINULA BIANGULATA*, n.sp. Pl. XXII, Fig. 13.

Testa elongato-conica, subdepressa capuliformis, albida, antice arcuata, subquadrata, obtuse biangulata, postice oblique truncata, rotundata, leviter expansa, undique costis radiantibus numerosis elatis nodatis crassiusculis alternatim angustioribus, et liris numerosis angustis transversis decussata, interstitiis foveolatis, dorso valde arcuato, apice acuto, incurvo, post medium sito, margine crenulato, fissura elongata. Long. 11, lat. 8, alt. 5 mm.

A beautifully latticed shell, of which the principal ribs are stouter and more roughly knotted, than in *E. reticulata* and its allies. The sides are slightly constricted, and the anterior end is a little flattened so as to form an obtuse angle on each side extending from the apex to the margin.

14. *ARCA BICARINATA*, n.sp. Pl. XXII, Fig. 14.

Testa oblonga, crassa, costis numerosis angustis nodulosis instructa, antice truncata, postice elongata, acuminata, valde concava, et curvatim biangulata, inferne haud hians; umbones remoti, incurvati, prominentes, ligamenti area lata, leviter concava; ligamentum fuscum, sulcis paucis sculptum. Long. 19, lat. 9, crass. 13 mm.

This species is remarkable for the concavity below the dorsal margin, throwing into prominence two rounded angles or keels.